

DEC700 Series

Desktop Security Appliance



AMD Ryzen[™] embedded, unrivalled in it's class

Upto 10 Gigabit performance in a small fan less desktop. Fully featured, great for SME's and branch offices.



10Gbps Throughput 830 Kilo Packets per Second



~1Gbps Inline Intrusion Prevention



Low Latency ~150 uS



Hardware Assisted Encryption 1.2Gbps IPsec (AES256GCM16)



Guard Web Access. Filtering (SSL) Proxy **Captive Portal with Voucher support**



256GB SSD **Offering Sufficient Space for** Logging & Reporting

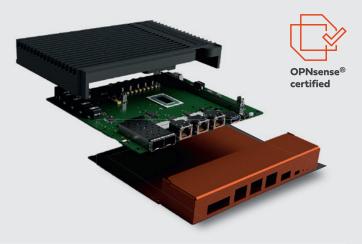


System wide two-factor authentication. Compatible with Google Authenticator.



Certified hardware from the developers

Made in the Netherlands





Bundled with a free year OPNsense[®] Business Edition

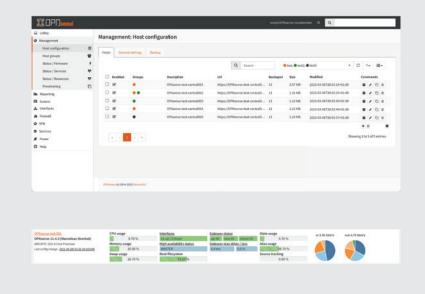
A 5-star experience

- * Commercial firmware repository
- * Official OPNsense Open Virtualisation Image
- Integrated GeoIP database
- Free E-Book (English & German)
- ***** Free professional plugins:
 - Web Application Firewall
 - Proxy Access
 - Extended Blocklist
 - OPNcentral[™]

OPNcentral[™]

Central Management, the OPNsense[®] way

- Provisioning
- Multi tenancy using host groups
- Centralised Backups
- Centralised Firmware Upgrades
- Monitorina:
 - Machine state
 - Firmware version
 - Resources





Software Versatile, open source and fully featured

OPNsense is Deciso's fast growing open source firewall and security platform released under an Open Source Initiative approved license. Its rich feature set is combined with the benefits of open and verifiable sources.

All features can be used from within the easy to use graphical interface, equipped with a build-in search feature for quick navigation. Protecting your network has never been this easy with features such as; the integrated intrusion prevention system and two-factor authentication for safely connecting mobile users.

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묘	Firewall: Rules: LAN						Services / Intrankon Detection / Administration Services / Intrasian Detection / Log File		
	Firewall: Rules: LAN						Nothingselected		
neting.			Evaluations	States	Packeta	Dytes	Description		
	6		Lunauvin		Factoria	- Chan	Automatically generated rules	• •	
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>	🚍 🗖 Active; Inactive Schedule (click to view (with)								
er wer		LAV rules are collusted on a fract-ratch basis (); e the action of the first rule to match a packet will be executed). This means that if you use block rules, you will have to pay attention to the rule order. Everything that is not explicitly paned in blocked by default.							
•									

Businesses

Protect your business network and secure your connections. From the stateful inspection firewall to the inline intrusion detection & prevention system everything is included for free.Use the traffic shaper to enhance network performance.

Schools

Limit and share available bandwidth evenly amongst students and utilise the category based web filtering to filter unwanted traffic such as adult content and malicious websites. It is easy to setup as no additional plugins nor packages are required.

Hotels

OPNsense offers a captive portal to control guest internet access for a limited duration. Vouchers can easily be created via the graphical user interface.

On the road

Even on the road OPNsense is a great asset to your business as it offers OpenVPN and IPSec VPN solution with road warrior support and two-factor authentication. The easy client exporter make configuring your OpenVPN SSL client setup a breeze.

Remote Offices / Branches & SOHO

The integrated site to site VPN (IPsec or SSL VPN) can be used to create a secure network connection to and from your remote offices. Enjoy the easy configuration and online searchable documentation with simple how-to type of articles to get you started, quickly. Pluggable support is offered for ZeroTier, Tinc as well as Wireguard.



O Cloud Backup

O Monitor & Traps

o Filter reload status

o Firewall Info (pfInfo)o Top Users (pfTop)

• Bogons • Current Open Sockets

o Firewall Tables

o Show All States

o State Summary O Wake on LAN

o State Reset

o ARP Table

O NDP Table

o Test Port

o Trace route

o Monit (Plugin)

Enhanced Reporting

Fully Integrated

• CVS Exporter • System Health

Exportable

Network Monitoring

Netflow Exporter

o Easy Upgrade

upgrades

 OpenSSL LibreSSL

upgrade) • Audit Feature

O Plugin Support

o ACL support

Online Documentation

For updated information on

OPNsense is a **Deciso**[•] brand.

• Free & Searchable

current release see

docs.opnsense.org

REST API

O Traffic Graph

Firmware

o Pina

O DNS Lookup

Packet Capture

Monitoring o Zabbix Agent (Plugin)

Proactive System Monitoring

o Network Flow Analyzer 'Insight'

Graphical Representation

Clickable and Searchable

Detailed Aggregation

• Round Robin Data

Live Traffic Monitoring

Version 5 & version 9

· Local for 'Insight'

o Support Virtual Installs

o SSL Flavour selectable

• VMware tools (Plugin)

• Xen Guest Utilities (Plugin)

Reboot warning for base

o Selectable Package Mirror

Check installed packages for

known security vulnerabilities

o Reinstall Single Package

o Lock Package (prevents

Selection & Zoom

Aliases

o Git Backup

Diagnostics

SNMP

Overview software features

Stateful firewall

- o Filter by Source
- Destination
- Protocol
- Port
- · OS (OSFP)
- o Limit simultaneous connec-
- tions on a per rule base o Log matching traffic on a per
- rule bases
- o Policy Based Routing
- o Packet Normalisation o Option to disable filter for
- , pure router mode

Policy organization • Alias Support

- IP addresses Port ranges
- Domain names (FQDN)
- Interface Groups
 Create security zones with
- equal rules o Rule Category
- Easy access rule sets

Granular control state table

- o Adjustable state table size
- o On a per rule bases • Limit simultaneous client
- connection • Limit states per host
- Limit new connections per second
- Define state timeout Define state type
- o State types
- Keep
- Sloppy
- Modulate
- Synproxy None
- o Optimisation options
- Normal
- High latency
- Agressive Conservative

Authentication

- External Servers
- Radius o Integrated Servers
- Local User Manager
- Vouchers / Tickets
- FreeRadius (Plugin)

Authorization

- O User Interface • Local User Manager
- Accounting
- o FreeRadius (Plugin & External) • Vouchers / Tickets

2-Factor Authentication

- O Supports TOTP
- o Google Authenticator
- o Supported services:
- Captive Portal
- Proxy VPN
- GUI
- SSH / Console
- Certificates
- o Certificate Authority
- Create or Import CA's
- Create or Import Certificates Let's Encrypt (Plugin)

Deciso Sales B.V. +31187744020 sales@deciso.com www.deciso.com

Automated (Trusted) CA

Feodo Tracker

o SSL Fingerprinting

configurable cron

o Typical Applications

Multiple Zones

o Authenticators

Guest Network
 Bring Your Own Device

• Template Management

Hotel & Camping Wifi Access

· All available authenticators

None (Splash Screen Only)
 Voucher Manager
 Multiple Voucher Databases

Export vouchers to CSV

o Timeouts & Welcome Back

o Bandwidth Management

MAC and IP whitelisting

Real Time Reporting
 Live top IP bandwidth usage

Use Traffic Shaper

Active Sessions

Virtual Private Networks

Road Warrior

Road Warrior

Road Warrior

• Full mesh routing

ZeroTier (Plugin)
 VPN, SDN & SD-WAN

Easy client configuration

o Automatic hardware failover

• Configuration synchronisation

o SSL Domain only (easy filtering)

Auto sync for remote blacklists

o Category Based Web-filter

o ICAP (supports virus scan

Virus scanning (via plugins)

o External engine support

o ClamAV (Plugin / C-ICAP)

o HAProxy - Load balancer

Online Identity Protection

o History & Diff support • File Backup

o Tor - Anonymity online (Plugin)

o Synchronized state table

• Site to Site

Site to Site

O OpenVPN

exporter • Tinc (Plugin)

High Availability

Caching Proxy

engine)

(ICAP)

Reverse Proxy

Backup & Restore

(Plugin)

Multi interface

O Transparent Mode

o Support SSL Bump

Access Control Lists
 Blacklists

o Traffic Management

• WireGuard (Plugin)

o Portal bypass

Time left

Rest API

o IPsec Site to Site

Captive Portal

(BYOD)

o Auto rule update using

• Emerging Threats ETOpen

- 802.1Q VLAN support o Max 4096 VLAN's

Link Aggregation & Failover

- o Failover o Load Balance
- o Round Robino Cisco Ether Channel (FEC)
- 0 802.3ad LACP

Other Interface types

- Bridged interfaces • Generic Tunnel Interface (GIF)
- Generic Routing
- Encapsulation

Network Address Translation

- Port forwarding
- o 1:1 of ip's & subnets Outbound NAT
- NAT Reflection
- **Traffic Shaping**
- o Limit bandwidth
- o Share bandwidth • Prioritize traffic
- Rule based matching
- Protocol
- Source
- Destination
- Port Direction

IGMP Proxy

- For multicast routing
- Universal Plua & Play
- Fully supported

Dynamic DNS

- Selectable form a list
- o Custom
 - o RFC 2136 support

DNS Forwarder

- o Host Overrides o Domain Overrides
- O DNS Server
- O Host Overrides
- A records MX records
- o Access Lists

DHCP Server O IPv4 & IPv6

Multi WAN

o Failover

o Aliases

• GPS

Load Balancer

multiple servers

Network Time Server

• Hardware devices

o Inline Prevention

SSL Blacklists

o Integrated rulesets

Pulse Per Second

o Balance incoming traffic over

Intrusion Detection & Prevention

o Relay Support

o BOOTP options

o Load balancing

DNS Filter Supports OpenDNS



Specifications and model comparison

Models	DEC740	DEC750
Software		
Preinstalled software	OPNsense®	OPNsense [®]
License	Open Source + 1 year free Business Edition	Open Source + 1 year free Business Edition
Hardware Specifications		
SFP+ Ports [10Gbps]	2	2
2.5GbE RJ45 Ports [100/1000/2500Mbps]	3	3
USB 3.0 Ports	1	1
Console Port	1	1
Internal Storage	128GB M.2. Solid State Flash	256GB M.2. Solid State Flash
Memory	4GB DDR4	8GB DDR4
CPU Cores	4 (max frequency 2.2Ghz)	4 (max frequency 2.2Ghz)
Virtual Interfaces (802.1q VLANS)1	4093	4093
System Performance		
Firewall Throughput	10Gbps	10Gbps
Firewall Packets Per Second	830Kpps	830Kpps
Firewall Port to Port Throughput	8.5Gbps	8.5Gbps
Firewall Port to Port Packets Per Second	719000	719000
Concurrent Sessions	300000	700000
Firewall Latency (average)	150us	150us
Firewall Policies (Recommended Maximum)1	10000	10000
IPsec VPN Throughput (AES256GCM16)	1.2Gbps	1.2Gbps
IPsec VPN Packet Per Second (AES256GCM16)	107Kpps	107Кррз
OpeVPN SSL Throughput (AES256GCM16)	500Mbps	500Mbps
OpenVPN Packet Per Second (AES256GCM16)	42Kpps	42Kpps
Threat Protection Throughput Packet Per Second	85Kpps	85Kpps
Threat Protection Throughput	~1Gpbs	~1Gpbs
High Availability with State Synchronisation	Requires Two	Requires Two
Dimensions		
Height x Width x Depth (mm)	28 x 190 x 160	28 x 190 x 160
Height x Width x Length (inches)	1.1 x 7.5 x 6.3	1.1 x 7.5 x 6.3
Form Factor	Desktop	Desktop
Weight (appliance only)	842g	842g
Environment		
Power Requirements	100-240VAC, 50-60Hz	100-240VAC, 50-60Hz
Maximum Current (AC)	0.8A	0.8A
Power Consumption (Typical)	15W	15W
Heat Dissipation (Typical)	51.2 BTU/hr	51.2 BTU/hr
Operating Temperature	0 to +45°C	0 to +45°C
Storage Temperature	-20 to +70°C	-20 to +70°C
Humidity	10-90% non-condensing	10-90% non-condensing
Regulatory Compliance		
	FCC part 15 Class A, CE, Rohs	FCC part 15 Class A, CE, Rohs

1) The user interface is designed for normal business usage, large rulesets, high number of users or interface assignments may be less practical.

Total Firewall Throughput is calculated based on system utilization and actual measured port-to-port performance (if both numbers are the same no measurement of system utilization was recorded and maximum theoretical throughput is likely to be higher). Maximum PPS is measured using 100 byte sized packages. All throughput numbers are based upon maximum packets per second multiplied by standard 1514byte frame size minus additional overhead where applicable. IPsec traffic is measured using AES256GCM16 via a routed tunnel.Latency is measured as an average over 60 seconds. IPS performance is measured using a the ET Open ruleset. Concurrent sessions are based upon memory available, where one state consumes 1KB of memory and IGB of memory is reserved for system tasks.